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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/018,864	02/26/2002	Jukka Wallenius	061602-5425	8477
30542 7550 0429/2008 FOLEY & LARDNER LLP P.O. BOX 80278			EXAMINER	
			PATEL, DHAIRYA A	
SAN DIEGO, CA 92138-0278			ART UNIT	PAPER NUMBER
			2151	
			MAIL DATE	DELIVERY MODE
			04/29/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/018.864 WALLENIUS, JUKKA Office Action Summary Examiner Art Unit Dhairva A. Patel 2151 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 08 February 2008. 2a) ☐ This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-26 is/are pending in the application. 4a) Of the above claim(s) _____ is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 1-26 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abevance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s)

1) Notice of References Cited (PTO-892)

Notice of Draftsperson's Patent Drawing Review (PTO-948)

Interview Summary (PTO-413)
 Paper No(s)/Mail Date. _____.

6) Other:

5) Notice of Informal Patent Application

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DETAILED ACTION

 This action is responsive to amendment filed on 2/7/2008. The amendment has been fully entered and considered.

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 2/7/2008 has been entered.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

 Claims 1-4,7-9,13-16,19-21,25-26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Shaffer et al. U.S. Patent # 6,801,521 (hereinafter Shaffer) in view of Hirni et al. U.S. Patent # 6,731,609 (hereinafter Hirni).

As per claim 1. Shaffer teaches a method comprising:

-monitoring in a routing means of control signaling between the two end-points (column 4 lines 25-32), the control signaling being specifically for separate audio (Fig. 2

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element 12, 14), video (Fig. 2 element 28,15) and data streams (Fig. 2 element 22,19) forming a multimedia stream transferred between the two end-points each located in network system, the audio, video and data streams each forming a separate media component (column 4 lines 57-67)(column 5 lines 1-23)(column 3 lines 5-67)(column 4 lines 1-3);

The reference teaches the gateway include an in-band signal monitoring to monitor the signals which are also routed by the gateway (routing means) between two or more H.323 terminals (transferred between two end points) and also formats the transmitted video, audio data and control streams (forming a multimedia stream) into messages for output to the network interface and each forming separate media component (Fig. 2 elements 12,28,22).

-informing, by the way of the routing means, control means (Fig. 4 element 850) about the separate media components (column 4 lines 44-67)(column 5 lines 1-6);

Shaffer teaches the control processor (control means) which extracts audio patterns from an incoming data stream and store them as audio files (media components). In this case the incoming data stream includes audio signals which are stored as audio files.

-recognizing in the routing means the separate media components associated with a call between the two end-points (column 5 lines 1-6, lines 29-45, lines 55-67); and

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The reference teaches gateway receiving the signals and recognizing the patterns of the call signals and the audio files (separate media components) associated with the call between H.323 terminals (two end points).

-applying, in the routing means, a connection control issued by the control means to the separate media components (column 5 lines 1-6, 25-45,55-67)(column 6 lines 1-15), which permits signaling messages related to the separate media components to be respectively modified and permits the signaling messages to be separately relayed to each of the separate media components related to each of the respective signaling messages.

The reference teaches a connection command (connection control) issued by the gateway which comprises control (control means) to block the signal (separate media components) through the gateway (routing means).

Shaffer fails to teach permitting signaling messages related to the separate media components to be respectively modified and permits the signaling messages to be separately relayed to each of the separate media components related to each of the respective signaling messages.

Himi also teaches monitoring in a routing means of control signaling between the two end-points (Fig. 2b element 43 and 43'), the control signaling being specifically for separate audio (Fig. 14 element 320), video (Fig. 14 element 322) and data streams (Fig. 14 element 318) forming a multimedia stream transferred between the two end-points (Fig. 13 element "caller phone" and Fig. 14 element "agent phone") each located

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in network system, the audio, video and data streams each forming a separate media component (Fig. 13 element 320,322,318)(column 15 lines 9-14, 21-30, 41-59)

Hirni also teaches informing by way of routing means, control means about the separate media components (column 17 lines 1-5, lines 16-21, lines 31-45)

Himi also teaches recognizing in the routing means the separate media components associated with the call between the two-end points (column 16 lines 67-67)(column 17 lines 1-21)(column 18 lines 1-22); and

Himi teaches permitting signaling messages (setup messages) related to the separate media components to be respectively modified and permits the signaling messages to be separately relayed to each of the separate media components (directing the message to Q.931 component) related to each of the respective signaling messages (related to the setup message and responding w/ proceeding message) (column 16 lines 17-32, lines 57-67)(column 17 lines 1-15) (column 18 lines 1-47).

The reference teaches the caller system sends an H.225 setup message (signaling messages) related to Q.931 components to the H.323 switch, and when the H.323 switch receives the messages, it directs to the Q.931 component to respond with proceeding message.

It would have been obvious to one of ordinary skill in the art at the time of applicant's invention was made to implement Himi's teaching in Shaffer's teaching to come up permitting signaling messages to be relayed to media components for which components can receive messages to set up an incoming call which is awaiting for

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acceptance or rejection. The motivation for doing so would to control the subsequent transmission of packets corresponding to the multimedia call (column 17 lines 13-15).

As per claim 2, Shaffer and Hirni teaches the method of claim 1, but Shaffer further teaches wherein in the monitoring step call control means control means receive a media component control-signaling message (column 6 lines 1-15).

The reference teaches in-band monitor monitoring the signals and then sending the control signal for the media stream to the gateway controller (control means).

As per claim 3, Shaffer and Himi teaches the method of claim 1, but Shaffer further teaches wherein the informing comprises:

-sending a message to the control means (column 5 lines 60-65); and

The reference teaches sending a message to the gateway, which comprises the control means (Fig. 4 element 850) of the gateway.

-waiting for a response from the control means (Column 5 lines 60-67).

The reference teaches receiving the message at the control means of the gateway and then sending a response to in-band signal monitor.

As per claim 4, Shaffer and Hirni teaches the method of claim 1, but Shaffer further teaches wherein the informing comprises:

-sending a message to the control means (column 5 lines 60-65); and

The reference teaches sending a message to the gateway, which comprises the control means (Fig. 4 element 850) of the gateway.

-waiting for a response from the control means (Column 5 lines 60-67)

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The reference teaches receiving the message at the control means of the gateway and then waiting and then sending a response to in-band signal monitor.

-receiving the message from the control means (Column 5 lines 60-67)

The reference teaches receiving the message at the control means of the gateway and then sending a response to in-band signal monitor, and

-sending a modified component control signaling message for call control means (column 6 lines 36-46)(column 7 lines 6-10).

The reference teaches sending a control signal message to the H.323 terminal advising the client of the busy signal or recognizing the signal and then client sends a disconnect signal message to the gateway to disconnect the call (call control means) because gateway is the one who is in control of call control means because it connects and disconnects the call.

As per claim 7, Shaffer and Himi teaches the method of claim 1, but Shaffer further teaches wherein the informing comprises:

-sending a message from call control means to the control means (column 5 lines 60-65); and

-waiting for a response from the control means to the call control means (Column 5 lines 60-67)

As per claim 8, Shaffer teaches the method of according to claim 2, wherein the media component control signaling message describes opening, closing or modifying a media component (column 5 lines 4-6).

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The reference teaches control signaling is recognized and the terminal starts playing (opening) the audio file (media component).

As per claim 9, Shaffer teaches the method according to claim 2, wherein the media component control signaling message is in association with a call signaling message (column 5 lines 2-6).

The reference teaches the when the component control signaling message is recognized the terminal starts playing the audio file corresponding to the call progress signal (call signal message).

As per claims 13-16,19-21 teaches same limitations as claims 1-4,7-9 respectively, therefore rejected under same basis.

As per claim 25, Shaffer teaches a network device for providing a connection control signal between two end-points, the control signal being specifically for separate audio, video and data streams forming a multimedia stream transferred between the two end-points (Fig. 1 element 102A,B)(column 3 lines 59-67) each located in a network system, the separate audio, video and data streams each forming a separate media component, the network device configured to monitor media component control signaling between the two end-points (column 4 lines 57-67)(column 5 lines 1-23)(column 3 lines 5-67)(column 4 lines 1-3);

The reference teaches the gateway include an in-band signal monitoring to monitor the signals which are also routed by the gateway (routing means) between two or more H.323 terminals (transferred between two end points) and also formats the transmitted video, audio data and control streams (forming a multimedia stream) into

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messages for output to the network interface and each forming separate media component (Fig. 2 elements 12,28,22).

-inform control means (Fig. 4 element 850) about separate media components associated with a call between two endpoints (column 4 lines 44-67)(column 5 lines 1-6);

The reference teaches H.323 terminals informing the gateway (Fig. 4 element 106) which comprises control means (Fig. 4 element 850) of the call signal (separate media components).

-apply a connection control issued by the control means to the separate media components (column 5 lines 1-6, 25-45,55-67)(column 6 lines 1-15).

The reference teaches a connection command (connection control) issued by the gateway, which comprises control (control means) to block the signal (separate media components).

Shaffer fails to teach permitting signaling messages related to the separate media components to be respectively modified and permits the signaling messages to be separately relayed to each of the separate media components related to each of the respective signaling messages.

Hirni also teaches monitoring in a routing means of control signaling between the two end-points (Fig. 2b element 43 and 43'), the control signaling being specifically for separate audio (Fig. 14 element 320), video (Fig. 14 element 322) and data streams (Fig. 14 element 318) forming a multimedia stream transferred between the two end-points (Fig. 13 element "caller phone" and Fig. 14 element "agent phone") each located

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in network system, the audio, video and data streams each forming a separate media component (Fig. 13 element 320.322.318)(column 15 lines 9-14, 21-30, 41-59)

Himi also teaches informing by way of routing means, control means about the separate media components (column 17 lies 1-5, lines 16-21, lines 31-45)

Himi also teaches recognizing in the routing means the separate media components associated with the call between the two-end points (column 16 lines 67-67)(column 17 lines 1-21)(column 18 lines 1-22)

Himi teaches permitting signaling messages (setup messages) related to the separate media components (Q. 931 component) to be respectively modified and permits the signaling messages to be separately relayed to each of the separate media components (directing the message to Q.931 component) related to each of the respective signaling messages (related to the setup message and responding w/ proceeding message) (column 16 lines 17-32).

The reference teaches the caller system sends an H.225 setup message (signaling messages) related to Q.931 components to the H.323 switch, and when the H.323 switch receives the messages, it directs to the Q.931 component to respond with proceeding message.

It would have been obvious to one of ordinary skill in the art at the time of applicant's invention was made to implement Hirni's teaching in Shaffer's teaching to come up permitting signaling messages to be relayed to media components for which components can receive messages to setting up an incoming call which is awaiting for

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acceptance or rejection. The motivation for doing so would to control the subsequent transmission of packets corresponding to the multimedia call (column 17 lines 13-15).

As per claim 26, Shaffer and Hirni teaches the method of claim 1, but Shaffer further teaches wherein the audio, video and data streams each forming media component are routable via different paths between the end-points (column 4 lines 57-67)(column 5 lines 1-23)(column 3 lines 5-67)(column 4 lines 1-3)

3. Claims 5-6,10-12,17-18,22-24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Shaffer et al. U.S. Patent # 6,801,521 (hereinafter Shaffer) in view of Hirni et al. U.S. Patent # 6,731,609 (hereinafter Hirni) further in view of Salama et al. U.S. Patent # 6,584,093 (hereinafter Salama).

As per claim 5, Shaffer and Himi teaches the method of claim 1, wherein during the monitoring, but fails to teach if the media component control signaling message are routed via media proxy means, the call control means request report of media component related events from the media proxy means, and the media proxy means inform the call control means of the media component related events. Salama teaches if the media component control signaling message are routed via media proxy means, the call control means request report of media component related events from the media proxy means, and the media proxy means inform the call control means of the media component related events (column 3 lines 1-15, lines 22-44)(column 5 lines 44-67)(column 6 lines 1-6). It would have been obvious to one of ordinary skill in the art at the time of applicant's invention was made to implement Salama's teaching in Shaffer and Himi's teaching to come up with routing signaling message via proxy, call control

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means requesting report from the media proxy, and media proxy informing the call control means. The motivation doing so would have been to find out if the signaling message was received when it was routed through the proxy therefore call control means requesting report to find out if the signaling message was received correctly.

As per claim 6, Shaffer and Himi teaches the method according to claim 1, but fails to teach the multimedia stream is routed via media proxy means communicating with call control means. Salama teaches the multimedia stream is routed via media proxy means communicating with call control means (column 3 lines 22-44). Salama teaches that all the RTP stream (multimedia streams) are routed via proxy communicating with the gatekeepers and the terminal (call control). It would have been obvious to one of ordinary skill in the art at the time of applicant's invention was made to implement Salama's teaching in Shaffer and Hirni's teaching to come up with having multimedia stream being route via a media proxy communicating with call control means. The motivation for doing so would have been so that each ISP which has different policies and which are connected to proxies can forces all incoming H.323 calls to go through these proxies in order to enforce its specific policies on the calls (column 3 lines 47-51).

As per claim 10, Shaffer, Hirni and Salama teaches the method according to claim 6, but Salama further teaches wherein the media components associated with a call are recognized in the media proxy (column 5 lines 50-67)(column 6 lines 1-6). Salama teaches media components associated with the call are received by the proxies and creates the corresponding request to pass to redirect server using recognized

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media stream. It would have been obvious to one of ordinary skill in the art at the time of applicant's invention was made to implement Salama's teaching in Shaffer and Hirni's teaching to come up with recognizing media components in the proxies. The motivation for doing so would have been so that media stream would flow directly between the endpoints and through Internet.

As per claim 11, Shaffer, Hirni and Salama teaches the method of claim 10, but Shaffer further teaches further comprising a connection control including: issuing connection control requests from the control means to the call control means (column 5 lines 24-45). Shaffer fails to teach issuing connection control requests from the call control means to the media proxy means. Salama teaches issuing connection control requests from the call control means to the media proxy means (column 5 lines 50-67)(column 6 lines 1-6) and switching the media components by the media proxy means in accordance with the connection control requests (column 6 lines 6-16). It would have been obvious to one ordinary skill in the art at the time of applicant's invention was made to implement Salama's teaching in Shaffer and Hirni's teaching to come up with issuing connection control requests to the media proxy from the call control means. The motivation for doing so would have been so that the media stream would flow directly between the endpoints and through Internet.

As per claim 12, Shaffer, Hirni and Salama teaches the method according to claim 11, but Shaffer further teaches wherein the switching of the media components involves media proxy switching IP packet payloads carrying a media component between an incoming and outgoing packet stream (column 3 lines 38-53).

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As per claims 17-18,22-24 teaches same limitations as claims 5-6,10-12 respectively, therefore rejected under same basis.

Remarks

Applicant's arguments filed 2/8/2008 have been fully considered but they are not persuasive.

As per remarks, Applicant stated the following:

- A). Applicant states Shaffer does not teach or suggest control signaling being separate audio, video and data streams, each of which form a separate media component nor Shaffer recite of contemplate information control means about the separate media components or applying a connection control thereto.
- B). Applicant states Shaffer or Himi neither states "ability to permit signaling messages related to the separate media components to be respectively modified and relayed to each of the separate media components".
- C). Applicant states Salama does not teach "if media component control signaling messages are routed via media proxy means, the call control means request report of media component related events from the media proxy means, and the media proxy means inform the call control means of the media component related events"

As per remark A, Examiner respectfully disagrees with the applicant because in column 4 lines 1-3, 57-67, column 5 lines 1-23, column 3 lines 59-67, Shaffer teaches the gateway include an in-band signal monitoring to monitor the signals which are also routed by the gateway (routing means) between two or more H.323 terminals (transferred between two end points) and also formats the transmitted video, audio data

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and control streams (forming a multimedia stream) into messages for output to the network interface and each forming separate media component (Fig. 2 elements 12,28,22). Furthermore, it is known in the art for H.323 protocol interface gateway/terminals to provide separate media components in the multimedia stream/call as applicant as stated in the "background of invention" of the present application (Page 2 lines 7-10). Examiner would like to point out Fig 2. elements 28,12,22,15,14,19 which provides video, audio, data to be separate media components. In column 3 lines 59-67, Shaffer further states that establishing communication between two H.323 terminals by H.225 layer it also formats the transmitted video, audio, data and control stream into messages for the output which proves these are separate components.

In column 4 lines 44-67, column 5 lines 1-6, Shaffer teaches the control processor (control means) which extracts audio patterns from an incoming data stream and store them as audio files (media components). In this case the incoming data stream includes audio signals which are stored as audio files. Furthermore, Shaffer teaches gateway receiving the signals and recognizing the patterns of the call signals and the audio files (separate media components) associated with the call between H.323 terminal (two end points). In particular the in-band signaling monitor in the gateway is configured to allow call progress signals to the pass to the H.323 terminal. When the signal is recognized the audio files corresponding to the call signal is played. Examiner would also like to point out that according to the specification of the present invention, for separate media components audio communication has to be supported and video and data are optional (Page 7 lines 11-13). Shaffer teaches using audio files

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which is audio communication. Therefore Shaffer teaches informing and recognizing the separate media components.

Examiner would also like to point out that Hirni also teaches monitoring in a routing means of control signaling between the two end-points (Fig. 2b element 43 and 43'), the control signaling being specifically for separate audio (Fig. 14 element 320), video (Fig. 14 element 322) and data streams (Fig. 14 element 318) forming a multimedia stream transferred between the two end-points (Fig. 13 element "caller phone" and Fig. 14 element "agent phone") each located in network system, the audio, video and data streams each forming a separate media component (Fig. 13 element 320,322,318)(column 15 lines 9-14, 21-30, 41-59).

Himi clearly shows in Fig. 13 and 14, having separate logical channels for audio, video, data i.e. separate components. These media streams are sent using H.245 audio and video open logical channel messages to the switch and then to the other endpoint. Therefore not only Shaffer but Himi also teaches limitations about "control signaling being separate audio, video and data streams, each of which form a separate media component"

As per remark B, Examiner respectfully disagrees with the applicant because in column 16 lines 17-32, 57-67 and column 17 lines 1-15, Himi teaches permitting signaling messages (setup messages) related to the separate media components (Q. 931 component) to be respectively modified and permits the signaling messages to be separately relayed to each of the separate media components (directing the message to Q.931 component) related to each of the respective signaling messages (related to the

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setup message and responding w/ proceeding message) (column 16 lines 17-32, lines 57-67)(column 17 lines 1-15). Himi further teaches the caller system sends an H.225 setup message (signaling messages) related to Q.931 components to the H.323 switch, and when the H.323 switch receives the messages, it directs to the Q.931 component to respond with proceeding message. In column 16 lines 65-67, column 17 lines 1-5, Himi teaches sending H.245 messages for each of the audio, video and data components (media components) to the agent system which acknowledges them back to the switch. The switch sends a T.120 conference invite message. The switch also sends H.245 protocol messages for controlling transmission of packets corresponding to the call (column 18 lines 1-47) Examiner would like to states that H.245 and H.225 setup message are signaling messages which are related to the media components since, the H.225 is used to for connection purposes for sending streams of audio, video data between endpoints. Therefore Himi teaches the claimed limitations.

As per remark C, Examiner respectfully disagrees with the applicant because in column 3 lines 1-15, lines 22-44, column 5 lines 44-67, column 6 lines 1-6, Salama teaches having SIP call is routed through the proxy server (media proxy), the proxy server forwards the request to the called terminal (call control means) and SIP response from the terminal goes through proxy server. In this case the media component related events are the SIP call. In column 5 lines 59-62, it states the redirect server receives SIP request from a client and responds with addressing information about where the call should be forwarded (inform the call control) about the SIP call i.e. the addressing

information and where it should be forwarded. Therefore Salama teaches the claimed limitations.

Conclusion

- The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- A). "Method and Apparatus for automatic inter-domain routing of calls" by Salama et al. U.S. Patent # 6.584.093.
- B). "System and method for distributed call signaling in telephony-over-LAN networks" by Shaffer et al. U.S. Patent # 6,801,521.

5.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dhairya A. Patel whose telephone number is 571-272-5809. The examiner can normally be reached on Monday-Friday 8:00AM-5: 30PM, first Fridays OFF.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Follansbee can be reached on 571-272-3964. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

DAP /John Follansbee/ Supervisory Patent Examiner, Art Unit 2151